

## Material: AISI 30309

### Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** AISI 30309 Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the

**Industry:** Steel, Bar, Wire and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	12.000 - 15.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	586.1 - 1896.1
-	-	-	Yield Strength in Mpa	241.3 - 1792.6
-	-	-	Elongation in %	1 - 55
-	-	-	Reduction of Area in %	65 min.
-	-	-	Hardness in HB	160 - 170
-	-	-	Impact in Joule	122 - 162.7 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A240 UNS S30908	ASTM	USA	Steel, Plate, Sheet and Strip
309	AMS	USA	Steel, Bar, Wire, Shape and Forging
309	SAE	USA	Steel, Bar, Wire, Shape and Forging
309 S 16	BS	British	Steel and Plates
STS 309S	KS	Korea	Steel, Plate, Sheet and Strip
SUH 309	JIS	Japan	Steel, Bar and Wire
A182 F 309H	ASTM	USA	Steel, Pipe and Forging

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

**Customer Care:** +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)